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1. ALL EXISTING CONDUIT, WIRING AND EQUIPMENT ARE SHOWN IN THE "EXISTING CONDUIT, WIRING AND EQUIPMENT UNDER THE CONTRACT" AND "ELECTRICAL HEAVY LINES."
2. CONTRACTOR SHALL UPGRADE PANELBOARD DEVICES TO PER EXISTING REQUIREMENTS APPLICABLE TO NATIONAL AND STATE ELECTRICAL CODES AND EQUIPMENT UNDER THIS CONTRACT.
3. THE CONTRACT DRAWINGS ARE DISCREPANCY IN TYPE AND NUMBER OF DEVICES OR EXACT LOCATION OF DEVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING CONDITIONS SHALL BE SHOWN ON THE CONTRACT DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
4. ALL EQUIPMENT SHOWS SHALL BE SURFACE MOUNTED EXPOSED, EXCEPT THE CONDUIT AND WIRING FROM THE 6IN FLOOR ELECTRICAL AND ELECTRIC CLOSETS INTO THE MECHANICAL EQUIPMENT ROOM.
5. IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER AN HEAVY ELECTRICAL DOCUMENTS BY ANY MEANS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENGINEER BE ALTERED. THE ALTERNATE ENGINEER SHALL AFFIX HIS SEAL AND SIGNATURE TO ANY ALTERED DRAWING. CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
6. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING BARS AND SUPPORT DETAILS FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
7. "SHEET" AS SHOWN ON THE ELECTRICAL DRAWINGS SHALL MEAN "DRAWING NUMBER".

[illegible]

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| | CONDUIT AND WIRING TURNED UP | | SMOKE POLE LIGHTING CIRCUIT SWITCH, WALL MOUNTED AT 45° AFF. SUB-LETTER DENOTES CONTROL. HUBBELL #1231-11 OR APPROVED EQUAL, WITH TYPE 302/304 STAINLESS STEEL FACEPLATE, HUBBELL #51 OR APPROX. EQUAL. | | DIRECTIONAL COUPLER (DC) DC-1 DENOTES EQUIPMENT NUMBER |
| | CONDUIT AND WIRING TURNED DOWN | | AIR FLOW SWITCH, SEE MECHANICAL PLANS FOR CATALOG #. | | DIRECTIONAL ANTENNA |
| | CONDUIT AND WIRING INSTALLED EXPOSED | | ALARM HORN (LOSS OF AIR FLOW). SEE MECHANICAL PLANS FOR CATALOG #. WALL MOUNTED AT 90° AFF. | | CROSS BAND COUPLER (CBC) CBC-33 DENOTES EQUIPMENT NUMBER 800 DENOTES 800-900MHz FREQUENCY BAND 450 DENOTES 450-512MHz FREQUENCY BAND VHF DENOTES 80-170MHz FREQUENCY BAND |
| | EXISTING CONDUIT AND WIRING | | WELDED CASE THERMAL MAGNETIC CIRCUIT BREAKER | | RADIO BASE STATION |
| | EXISTING CONDUIT AND WIRING TO BE REMOVED | | IONIZATION TYPE SMOKE DETECTOR, CERBERUS PHOTRONICS #17-11, WITH D3-11 VOLTAGE BASE | | SIGNAL SPLITTER & COMBINER (SSC) S-SOURCE L-L-LOAD SSC-1 DENOTES EQUIPMENT NUMBER |
| | CAPPED CONDUIT | | DUCT MOUNTED, IONIZATION TYPE, SMOKE DETECTOR, CERBERUS PHOTRONICS AD-300 DUCT MOUNTING WITH R-11B ADDRESSABLE DETECTION AND STA-6 SAMPLING TUBE SIZED TO LENGTH IN FIELD | | HYBRID DIRECTIONAL COUPLER (SIGNAL SAMPLER) DC-3 DENOTES EQUIPMENT NUMBER |
| | CABLE TRAY, ALUMINUM, OPEN LADDER, 12" X 4", WITH DROPOFFS EVERY 2' OVER RADIO EQUIPMENT | | LOW VOLTAGE MOTOR STARTER, FULL-VOLTAGE, NON-REVERSING, N INDICATES SIZE | | LOAD |
| | EXISTING FACEBOARD | | MOTOR, N INDICATES HORSEPOWER | | LIGHTNING ARRESTOR, SEE DRAWING E-308 |
| | GROUNDING CABLE (#10, #4/0, OR #2, AS SHOWN ON PLANS) | | MOTORIZED DAMPER, SEE MECHANICAL DRAWINGS | | |
| | RELAY OPERATOR LINE | | THERMOSTAT, H DENOTES NUMBER, SEE MECHANICAL PLANS FOR CATALOG #S. THE THERMOSTAT AND ASSOCIATED WIRING LOCATED IN THE BATTERY ROOM SHALL BE EXPLOSION-PROOF, NEE CLASS 2, GROUP B. | | |
| | FACEBOARD | | BUILDING OCCUPANCY NUMBER | | |
| | FUSED DISCONNECT SWITCH 100A - INDICATES FUSE AMPERE RATING 100A - INDICATES DEVICE AMPERE RATING | | SYNTHETIC RUBBER MAT, ADD-PROOF, SIZED AS SHOWN ON PLANS | | |
| | UNFUSED DISCONNECT SWITCH 100A - INDICATES DEVICE AMPERE RATING | | SEE ALARM SPEAKER AND STROBE UNIT, ALL MOUNTED AT 50° AFF. WHEEL LOCK #10-24-1/2" WR WITH BACKBOX # SSB, RINGS AS R ATTS AND CARGELA | | |
| | DUPLEX CONVEIENCE RECEPTACLE, 15A, 125V, 3 WIRE GROUNDING TYPE, HUBBELL #1282-1 OR APPROVED EQUAL, WITH TYPE 302/304 STAINLESS STEEL FACEPLATE, HUBBELL #58 OR APPROVED EQUAL | | TERMINAL STRIP CABINET (EXISTING/FIRE ALARM SYSTEM) | | |
| | DUPLEX CONVEIENCE RECEPTACLE, 15A, 125V, 3 WIRE GROUNDING TYPE, GRAYBAR # GR52FF-11 OR APPROVED EQUAL, WITH NEVA 30 "WEATHERPROOF" WHILE K, USE DEEP COVER, TANKING #2210 OR APPROVED EQUAL | | FIRE ALARM SYSTEM ADDRESSABLE INTERFACE N-100-1 CONTACTS RATED 1A INDUCTIVE CERBERUS PHOTRONICS #17-11B | | |
| | JUNCTION BOX | | CABLE TRAY SUPPORTS, SEE DETAILS IN STRUCTURAL DRAWINGS | | |
| | RADIO EQUIPMENT | | COMBINATION MOTOR STARTER AND FUSIBLE DISCONNECT SWITCH | | |
| | ELECTRICAL EQUIPMENT | | | | |
| | WIRE RUN TO PANEL TYPE FOR CIRCUIT NUMBERS 7, 8 AND 1, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 4-1/2, 5, 5-1/2, 6, 6-1/2, 7, 7-1/2, 8, 8-1/2, 9, 9-1/2, 10, 10-1/2, 11, 11-1/2, 12, 12-1/2, 13, 13-1/2, 14, 14-1/2, 15, 15-1/2, 16, 16-1/2, 17, 17-1/2, 18, 18-1/2, 19, 19-1/2, 20, 20-1/2, 21, 21-1/2, 22, 22-1/2, 23, 23-1/2, 24, 24-1/2, 25, 25-1/2, 26, 26-1/2, 27, 27-1/2, 28, 28-1/2, 29, 29-1/2, 30, 30-1/2, 31, 31-1/2, 32, 32-1/2, 33, 33-1/2, 34, 34-1/2, 35, 35-1/2, 36, 36-1/2, 37, 37-1/2, 38, 38-1/2, 39, 39-1/2, 40, 40-1/2, 41, 41-1/2, 42, 42-1/2, 43, 43-1/2, 44, 44-1/2, 45, 45-1/2, 46, 46-1/2, 47, 47-1/2, 48, 48-1/2, 49, 49-1/2, 50, 50-1/2, 51, 51-1/2, 52, 52-1/2, 53, 53-1/2, 54, 54-1/2, 55, 55-1/2, 56, 56-1/2, 57, 57-1/2, 58, 58-1/2, 59, 59-1/2, 60, 60-1/2, 61, 61-1/2, 62, 62-1/2, 63, 63-1/2, 64, 64-1/2, 65, 65-1/2, 66, 66-1/2, 67, 67-1/2, 68, 68-1/2, 69, 69-1/2, 70, 70-1/2, 71, 71-1/2, 72, 72-1/2, 73, 73-1/2, 74, 74-1/2, 75, 75-1/2, 76, 76-1/2, 77, 77-1/2, 78, 78-1/2, 79, 79-1/2, 80, 80-1/2, 81, 81-1/2, 82, 82-1/2, 83, 83-1/2, 84, 84-1/2, 85, 85-1/2, 86, 86-1/2, 87, 87-1/2, 88, 88-1/2, 89, 89-1/2, 90, 90-1/2, 91, 91-1/2, 92, 92-1/2, 93, 93-1/2, 94, 94-1/2, 95, 95-1/2, 96, 96-1/2, 97, 97-1/2, 98, 98-1/2, 99, 99-1/2, 100, 100-1/2, 101, 101-1/2, 102, 102-1/2, 103, 103-1/2, 104, 104-1/2, 105, 105-1/2, 106, 106-1/2, 107, 107-1/2, 108, 108-1/2, 109, 109-1/2, 110, 110-1/2, 111, 111-1/2, 112, 112-1/2, 113, 113-1/2, 114, 114-1/2, 115, 115-1/2, 116, 116-1/2, 117, 117-1/2, 118, 118-1/2, 119, 119-1/2, 120, 120-1/2, 121, 121-1/2, 122, 122-1/2, 123, 123-1/2, 124, 124-1/2, 125, 125-1/2, 126, 126-1/2, 127, 127-1/2, 128, 128-1/2, 129, 129-1/2, 130, 130-1/2, 131, 131-1/2, 132, 132-1/2, 133, 133-1/2, 134, 134-1/2, 135, 135-1/2, 136, 136-1/2, 137, 137-1/2, 138, 138-1/2, 139, 139-1/2, 140, 140-1/2, 141, 141-1/2, 142, 142-1/2, 143, 143-1/2, 144, 144-1/2, 145, 145-1/2, 146, 146-1/2, 147, 147-1/2, 148, 148-1/2, 149, 149-1/2, 150, 150-1/2, 151, 151-1/2, 152, 152-1/2, 153, 153-1/2, 154, 154-1/2, 155, 155-1/2, 156, 156-1/2, 157, 157-1/2, 158, 158-1/2, 159, 159-1/2, 160, 160-1/2, 161, 161-1/2, 162, 162-1/2, 163, 163-1/2, 164, 16 | | | | |

NOTE: RADIO TRANSMISSION CABLE RUNS LESS THAN 10' NOT DESIGNATED



ORIGINAL SAVED & SEALED BY
NY DE (DP RA)

Ram Communications Consultants, Inc.
10 Woodbridge Center Drive
Woodbridge, NJ 07095
(908) 636-6970 fax (908) 636-7260

HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. *WTC-945.071* IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 1/16/98 Sultana A. Aslam
SPEC. WRITER
DATE 4/10/98 P.K. Vining
ENGINEER OF DESIGN

| No. | Date | Ref/Rev | Revised |
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**STANDBY POWER
5 WORLD TRADE CENTER
COMMUNICATIONS**

LEGEND, GENERAL NOTES,
STAGING PLAN, AND
ABBREVIATIONS

This drawing subject to conditions in contract.
All inventions, data, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent.

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|-----------------|----------------|-------------|
| <u>D.S.</u> | <u>R.N.</u> | <u>D.S.</u> |
| Designed by | Drawn by | Checked by |
| Date | Scale NONE | |
| Contract Number | Drawing Number | |
| WTC-945.071 | E-801 | |